

Catalog No. XIM-MA001

Anti c-Myc [9E10]

Background:

c-Myc is a very strong proto-oncogene and it is very often found to be upregulated in many types of cancers. Through its role as a transcription factor, c-Myc alters the expression of hundreds of target genes, many of which are themselves oncogenes or tumor suppressors. 9E10 recognises recombinant proteins incorporating a c-Myc epitope tag and detects human c-Myc protein as well as a peptide in random coil configuration not as a helix.

Applications:	ChIP, ELISA, IHC, IP, WB
Specificity:	c-Myc epitope tag
Reactivity:	Human
Immunogen:	Synthetic peptide (AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA - 32 aa) corresponding to 408-439 of Human c-Myc conjugated to KLH.
Host:	Mouse
Clonality:	Monoclonal (clone# 9E10)
Subclass:	IgG1
Purification method:	Purified from mouse ascites fluids by affinity chromatography (Protein G)
Form:	Liquid (PBS), no preservatives added
Volume:	200ug
Concentration:	1 mg/mL
Storage condition:	-20°C

References

Mateos-Gomez *et al.* 2015. Nature. 518(7538):254-7. PMID: 25642960. (WB)

Zhang *et al.* 2014. Genes Dev. 28(8):829-34. PMID: 24736842. (ChIP)

Zhou *et al.* 2012. J Cell Biol. 196(2):203-11. PMID: 22270916. (IP, WB)

Mendes *et al.* 2010. J Biol Chem. 285(50):39117-26. PMID: 20937822. (IP, WB)

Royds *et al.* 1992. J Pathol. 166(3):225-33. PMID: 1381423. (IHC)

Spandidos *et al.* 1987. Anticancer Res. 7(6):1299-304. PMID: 3327455. (IHC)

Kari *et al.* 1986. J Virol. 60(2):345-52. PMID: 3021969. (IP)

Evan *et al.* 1985. Mol Cell Biol. 5(12):3610-6. PMID: 3915782. (WB)

Example Assay Data:

1. Sample Preparation

Inserted c-Myc tag to C-terminus end of DasherGFP plasmid vector (DNA2.0)

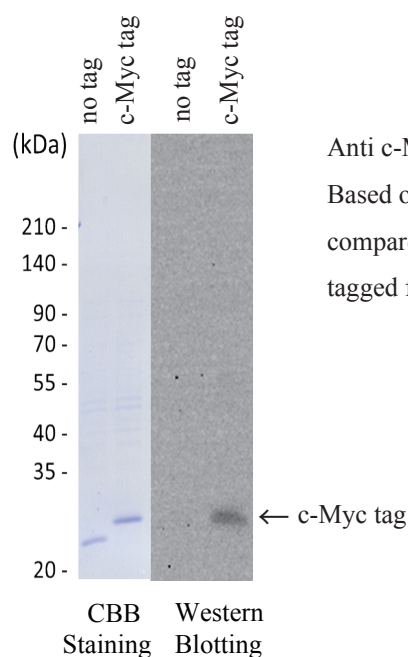
Protein was expressed in *E.coli* and lysed (Crude sample).

Crude sample as separated by SDS-PAGE. Part of the fraction was used for CBB Staining, rest for Western Blotting.

2. Western Blotting

Primary Antibody (anti c-Myc [CAC-XIM-MA001]) 1 : 1000 dilution (1µg/mL)

Secondary Antibody (anti mouse IgG-HRP, Bethyl Laboratories, Cat.No. A90-216P) 1 : 3000 dilution



Anti c-Myc [CAC-XIM-MA001] detection of c-Myc tag:

Based on CBB Staining result, c-Myc tagged fluorescent protein had higher molecular weight compared to fluorescent protein only (no tag). Based on Western Blotting result, c-Myc tagged fluorescent protein was detected, though no band was detected with no tag.

For research use only, Not for diagnostic use.



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